

FUCLS Foreights



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UTAH,
1875.



OFFICIAL PUBLICATION OF THE UTAH COUNCIL OF LAND SURVEYORS

In conjunction with the National Society of Professional Surveyors, and The Western Federation of Professional Surveyors

UTAH COUNCIL OF LAND SURVEYORS MEMBERSHIP APPLICATION

Return this application with fees to the Utah Council of Land Surveyors, P.O. Box 1032, Salt Lake City, Utah 84110

Name of Applicant: _____

Send Mail To: Business Home (check one)

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E-Mail: _____

Fax: _____

I hereby make application for membership in the Utah Council of Land Surveyors and agree to abide by the By-Laws of the organization:

Date: _____

Signature: _____

Check membership applied for:

- | | | |
|--------------------------|--------------|----------|
| <input type="checkbox"/> | LICENSED | \$125.00 |
| <input type="checkbox"/> | ASSOCIATE | \$60.00 |
| <input type="checkbox"/> | OUT-OF-STATE | \$60.00 |
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| <input type="checkbox"/> | AFFILIATE | \$50.00 |
| <input type="checkbox"/> | STUDENT | \$30.00 |
| <input type="checkbox"/> | SUSTAINING | \$130.00 |

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Chapter with which you wish to affiliate:

- Book Cliffs Color Country Golden Spike Salt Lake Timpanogos

The following is a list of the standing committees of this organization. Check any committee on which you would be interested in serving:

- | | | |
|--|---|--------------------------------------|
| <input type="checkbox"/> Legislation | <input type="checkbox"/> Education | <input type="checkbox"/> Publication |
| <input type="checkbox"/> Workshop and Convention | <input type="checkbox"/> Standards and Ethics | <input type="checkbox"/> Testing |
| <input type="checkbox"/> Public Relations | <input type="checkbox"/> Historical | <input type="checkbox"/> Membership |

Licensed Member must be individuals who are licensed as land surveyors in accordance with the laws of the State of Utah and who otherwise have met the membership requirement set forth herein and/or modified by the Board of Directors from time to time. Only Licensed Members shall have the rights of voting members under the Act;

Associate Members must be employed by a licensed land surveyor or employed by a firm or agency engaged in the practice of land surveying and must intend to make their livelihood in the land surveying profession;

Affiliate Members must be employed by a private firm or public agency that is engaged in an activity related to the surveying profession. Affiliate Members are those persons who do not desire to become professional land surveyors but are interested in being associated with the land surveying profession;

Student Members must be enrolled in a college or university in pursuit of a major in surveying or a related field;

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From the Editor

BY STEVE KEISEL



Did you hear the story of the surveyor who became a mother's object lesson about the value of an education? The surveyor was down on his knees with his hands in the dirt searching for a rebar and cap in an attempt to locate the corner when a mother walked by. Holding the hand of her young son, she pointed the surveyor out and said, "You see Billy, that's why you have to stay in school. You could end up with a job just like that."

Recently, I received a phone call from a former student — a colleague, who excitedly announced that he had completed all of the requirements and was now qualified to be a Licensed Professional Land Surveyor. I felt his enthusiasm and congratulated him on his accomplishment. I then cautioned him on the expectations and responsibilities of being a licensed professional. He expressed gratitude for the classes he took and the educational experiences we shared. I thanked him then challenged him to give back to the profession by mentoring those who may follow him.

What is a mentor? The original Mentor is a character in Homer's epic poem, *The Odyssey*. When Odysseus, King of Ithaca went to fight in the Trojan War, he entrusted the care of his kingdom and his son, Telemachus, to Mentor who served as a teacher and overseer. The Merriam-Webster online dictionary defines mentor as "a trusted counselor or guide." Mentoring is a gift and a privilege. To be asked by someone for mentoring means that person sees you as a role model and believes your wisdom can help him/her grow and be successful. Additionally, mentoring has the potential of being one of the most rewarding and satisfying opportunities in your career.



Last month, I reluctantly decided to retire as an adjunct professor at the Salt Lake Community College. Instructing our future surveyors has been challenging - yet rewarding experience for me. When I announced my retirement, one of the students inquisitively asked, "Don't you enjoy teaching?"

I responded in the affirmative; however, his question caused me to reflect on the past. Why am I here? Do I enjoy what I do, and what events brought me here. Although it may sound like a theological or possibly a psychological dilemma, I believe the debate is really a condition or feeling of contentment in my life.

I have reached a point in my career where I find it enjoyable to reflect on the steps, and/or opportunities that led me to where I am today. Like most of you, I remember the dream of growing up, choosing a career, getting married, having kids, and living happily ever after — not necessarily in that order. However, during those "growing-up" years, I do not recall a time when I had aspirations of becoming a land surveyor. In fact, I had no idea what a land surveyor was until our eleventh grade trigonometry teacher, Mr. Swineburn, introduced the subject. I remember thinking that the ability to calculate angles and distances was pretty cool - but how could I apply this newfound knowledge to my life. Unfortunately, this higher intelligence

did not equate to more dates - nor did determining the hypotenuse of an angle make me a better athlete; which were probably the two most important things to me at that time of my life.

Fortunately, I had aspirations of becoming an architect and therefore took several years of drafting in high school. Unfortunately, I had no practical experience and limited job opportunities. Fortunately, a small engineering company in eastern Utah hired me as a civil drafter. Unfortunately, my goal of becoming an architect became a hazy dream as my work focused on engineering projects. Fortunately, the principles of this company were extraordinary and they employed competent and interesting personnel. Unfortunately, the workload was not great enough to employ a full time drafter. Fortunately, the company had a need for additional help in their survey and project management section. Unfortunately, I failed to realize the wonderful opportunity that Johansen and Tuttle Engineering gave me until much later in my career. Fortunately, I believe their positive influence set me on a course that led me to where I am today.

On my first day of employment, I had no idea what to expect. Meeting my supervisor and future mentor for the first time was — to say the least - intimidating. He had long hair, a full beard, and looked like a rough mountain man



but I soon discovered he knew what he was doing.

“Do you use a Leroy guide?” Lee asked. Actually, what I heard sounded more like statement than a question.

“A Leroy guide – um I’m not sure what that is” I responded, “Will that be a problem?”

“It might” answered Lee.

I remember thinking – this is my first day of work and I have no freaking idea what I should know or what I am supposed to be doing. This is not going to end well!

Lee was a very patient instructor. He made sure that I understood what was expected and then took time to teach me how to do my job. Taking Leroy pens apart and cleaning them was my first job. Although necessary, I found pen cleaning to be a real chore and wondered if all future architects had to experience this right-of-passage? After graduating from Leroy maintenance training, I had multiple opportunities to learn the art and science of drafting, engineering, and surveying.

My surveying education began as a rodman on a survey crew. One of my first jobs was to assist the party chief in calculating angles to stake out lots in a new subdivision. I thought it was relative easy computation to subtract one bearing from another to determine a turning angle. Therefore, I was surprised when Howard told me my answers were wrong. Fortunately, he corrected me in such a way that I actually felt good about the trip. Howard took the time to draw graphics and explained that S. 89°54’30” E. is also N. 89°54’30” W. Even when I screwed up (yes I am human and do occasionally

screw things up) Howard always treated me professionally and respectfully.

The majority of our work consisted of municipal services and therefore I had opportunities to work on a large variety of engineering projects. Oftentimes my project involvement ranged from concept to completion; from preliminary to as-built surveys; from construction documents to project management; from pre-bid to project completion. Regardless of the project status, Craig always encouraged me to learn and therefore motivated me to do more. Much like a son’s desire to please his father – I always wanted my work to be a positive reflection on the company.

The Utah Division of Occupational and Professional Licensing (DOPL) defines the responsibilities of a supervisor as per R156-22-302c – Professional Engineers and Professional Land Surveyors Licensing Act Rule (1) k Duties and Responsibilities of a Supervisor shall include:

- (i) A person may not serve as a supervisor for more than one firm.
- (ii) A person who renders occasional, part time or consulting services to or for a firm may not serve as a supervisor.
- (iii) The supervisor shall be in responsible charge of the projects assigned and is professionally responsible for the acts and practices of the supervisee.
- (iv) The supervision shall be conducted in a setting in which the supervisor is independent from control by the supervisee and in which the ability of the supervisor to supervise and direct the practice of the supervisee is not compromised.
- (v) The supervisor shall be available for advice, consultation, and direction consistent with the standards and ethics of the profession.
- (vi) The supervisor shall provide periodic review of the work assigned to the supervisee.
- (vii) The supervisor shall monitor the performance of the supervisee for compliance with laws, standards and ethics applicable to the profession.

(viii) The supervisor shall provide supervision only to a supervisee who is an employee of a licensed professional or alternatively in a setting wherein both the supervisor and the supervisee are engaged in a work setting in which the work is exempt from licensure requirements.

(ix) The supervisor shall submit appropriate documentation to the Division with respect to all work completed by the supervisee during the period of supervised experience, including the supervisor’s evaluation of the supervisee’s competence to practice

(x) The supervisor shall assure each supervisee has obtained the degree which is a prerequisite to the intern beginning to obtain qualifying experience.

Furthermore, R156-22-502 – provides a warning for inadequate supervision

Unprofessional Conduct Includes:

(3) Failing as a supervisor to exercise supervision of an employee, subordinate, associate, or drafter;

Mentorship is a personal developmental relationship in which a more experienced or more knowledgeable person helps to guide a less experienced or less knowledgeable person. However, true mentoring is more than just answering occasional questions or providing ad hoc help. It is about an ongoing relationship of learning, dialogue, and challenge. In Utah, we have, arguably, the best geomatics and surveying institutions in the world. Students graduate with the theory, knowledge, and tools necessary to pursue a career in surveying. However, surveying also requires a practical knowledge that can only be achieved through experience, observation, investigation, and a thorough assessment of evidence.

I feel extremely fortunate to have had exemplary mentors during the infancy of my professional career. A thank you – no matter how sincere – would never be sufficient payment for the influence they have been on me. I believe the best restitution I could ever give is to be as good a mentor as was those who mentored me.

UCLS Welcomes the Following New Members:

- Allen Adam, PLS – Bush and Gudgell
- Wacey Allred, Associate – Johansen & Tuttle Engineering
- Daryl Brown, Associate – Watson Engineering
- Paul Buchele, PLS – UELS
- Sarah Cervenka, Student – Park City Surveying
- Stephen Collier, PLS – CRS Engineers
- Robert Curtis, Student
- Daniel Francetic, PLS - Entellus Inc.
- Clinton Hansen, PLS – Advanced Land Surveying
- John Jenkins, Associate – Jones and Demille Engineering
- Mason Jensen, Associate – Silverpeak Engineering
- Allen Johnson – Al's Pin Pounders, LLC
- Brandie Kilts, Student – Weber County Surveyor
- Spencer Llewelyn, Associate – Focus Engineering & Surveying
- Kurt Orban – Wallace Morris Orban Surveying
- Kate Rogers, Student – Park City Surveying
- David Romrell – Bingham County
- Karey Rowley, Associate – Ensign Engineering
- William Sanders, PLS – Civil Science
- Vernon Scott, PLS – Rosenburg Associates
- Rhett Watkins, Student – UDOT
- Klint Witney, PLS – Gardner Engineering

UCLS Congratulates and Recognizes the Following New Licensed Surveyors

- Travis William Sanders
- Jared Martin Leavitt
- Anthony Zaugg



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Salt Lake Chapter Report



BY GARY CHRISTENSEN

The Salt Lake Chapter had a meeting at the U.C.L.S. Convention and discussed chapter meeting topics and venues for the upcoming year. Some topic ideas were for Title companies, local governments, vendors and others to come to our Chapter luncheons.

The Salt Lake Chapter presidency met in March to go over an agenda for the year and discussed additional topics for the upcoming year. We are planning to have luncheons every month except

for September and December. Some of the topics we wish to discuss will be new ALTA/NSPS Survey standards, County and City subdivision standards, title questions and answers, and vendor “up and coming” technologies that may affect our profession.

Special thanks to Brent Bateman from the State Ombudsman office who came and presented at our April chapter luncheon at Joe Morley’s. We had around 25 people attend. It was a great

discussion covering a court case involving the law of acquiescence and how that is applied. Also, we talked about roadways and owners rights, easements, and encroachments. It was a great luncheon with lots of good participation. Our next luncheon is planned for May 19th and the topic will be “Elements of Utah State Code 17-23-17”, presented by the Salt Lake County Surveyors Office.

Color Country Chapter Report



BY TODD JACOBSEN

The Color Country Chapter presidency met in March to discuss future meeting and also held a luncheon in April. Marches Presidency Meeting – This meeting was held to discuss future meeting for our chapter. Each member of the presidency will be in charge of at least one meeting, getting a topic, presenter and place to hold the meeting. Future possible topics include having an attorney talk to us, having an insurance agency come talk to us, discuss changes in the laws, etc...

April – Steve Keisel came and presented to us the changes to the ALTA/NSPS standards. This meeting was held at the Sizzler in Cedar City. Although we only had six people at this meeting it was a great discussion about the current changes to the standards. Big thanks to Steve for traveling down to do this for us.

Golden Spike Chapter Report



BY ANDY HUBBARD

This past February we met at the convention and discussed the topics we would like covered.

One of the items the Chapter was asked to address is Layton and Syracuse Cities have adopted a stance limiting and eliminating centerline street monuments. Discussions have been had with staff from both cities, with little headway. Therefore, we have prepared a letter to the Mayor's requesting a meeting to discuss the issues. An article from the American Surveyor Magazine entitled Destroying Monuments, sheer stupidity in San Diego, will be included to help them understand what has happened in other locations when this happens. The Chapter President also presented the Letter to the UAC County Surveyors and based on that discussion; believe they will be adding a letter voicing sup-

port of our concerns. We will keep the membership posted on the progress.

March we met and had a nice turnout, Mike Hendry from Mountain View Title Spoke about working with Surveyors to resolve boundaries and the New ALTA Standards as it related to Title companies and Surveyors.

April we met and had a nice presentation from the Davis County Surveyors Office on the information available from them, Tie sheets, section breakdowns, and the requests from Layton City to move to a NAD 83 system county wide.

May we are planning on meeting the 18th at Noon, Orlando's in Kaysville. Jeff Hirst will be presenting on Loss Prevention.



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April 20, 2016

Mr. Dale A. Stinton
Chief Executive Officer
National Association of Realtors®
430 N. Michigan Avenue
Chicago, IL 60611-4087
Re: National Association of Realtors – Code of Ethics and
Standards of Practice (effective 1/1/16)

Dear Mr. Stinton:

It has come to the attention of the National Society of Professional Surveyors (NSPS) that there are many instances in which Realtors are potentially assuming great liability by providing to property owners, or buyers, information that is assumed to be accurate regarding the location of property boundaries and corner monuments. In some cases, describing land area contained in a property may also assume liability.

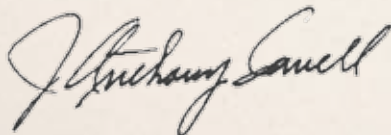
Such practices are in direct conflict with the respective state licensing laws regarding the practice of surveying, undermine the mandate in those licensing laws related to the protection of the health, safety, and welfare of the public, and often create unnecessary conflict among adjacent land owners.

NSPS urges the National Association of Realtors to add the following language to Article 13 of its Code of Ethics and Standards of Practice document:

REALTORS® shall not engage in activities that constitute the unauthorized practice of Land Surveying and shall recommend that counsel of a professional land surveyor be obtained when the interest of any party to the transaction requires it.

Such language would be notice that Realtors should neither act in such a way, nor make statements, so as to imply that the Realtor is qualified to state with certainty the location of property boundary markers, or the location of a property line. It should be made clear to the client/land owner that such activities and statements are solely the responsibility of the professional land surveyor who is qualified and duly licensed by the state in which the property is located.

Sincerely,



J. Anthony Cavell PLS
President
National Society of Professional Surveyors (NSPS)
5119 Pegasus Court, Suite Q
Frederick, MD 21704



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Utah Council of Land Surveyors

April 12, 2016

Fellow surveyors,

First of all, I would like to thank all those who participated in our annual conference. Those who organized it, those who presented, and those who attended. Here are a few interesting bits of information gleaned from the attendant survey.

- We have 297 members attending – 200 responded to the survey.
- 71% of respondents want to continue the tradition of the conference in St George. (75% like it held in February)
- 50% would like to see a combined conference with Nevada and WestFed – as long as they come to Dixie.
- 21 surveyors would be willing to share their experiences on a completed project.
- What year were you born – the average was 1973.

We have an open dialog with NALS and will soon know if they want to participate together in 2017.

This past year we adopted some key changes to our by-laws. Section 5.6 outlines the organization of student chapters. I am hopeful that we will be petitioned to approve for one or more student chapters this year. Student participation and interaction within the UCLS has been an important and valuable addition for many years. Student volunteers have assisted with the state conference and the fall forum. The UCLS is a resource for student projects and development. Student chapters represent another win-win relationship.

I enjoyed participating with all of my peers in one student's Capstone project by filling out his questionnaire during the conference. I am looking forward to his report of the findings and his assessment of the results.

Respectfully,



Dale Robinson, PLS

UCLS State Chair

Western Federation of Professional Surveyors



BY WFPS REPRESENTATIVE: MICHAEL NADEAU, PLS/CFEDS REPORT



The last Western Federation of Professional Surveyors (WFPS) Board of Directors meeting was held on January 9, 2016 at the Ayres Suites in Ontario, California. Delegates from 11 of the 13 western states were in attendance including myself, representing as Utah's delegate. Following is an update of what WFPS is currently working on.

Developing and Maintaining Programs to Promote the Profession

WFPS is committed to promoting the land surveying profession. To that end, WFPS is currently developing the following programs:

Youth Outreach – Land Surveying as a Career

► WFPS has budgeted funds to develop an after school/community program. The program will include 10 hours of curriculum that can be used by state associations and their chapters to promote land surveying as a career. The initial outline of the program is complete. More information will be available regarding this program in the future.

► Continuance of the Teaching with Spatial Technology (TwIST) program which provides teachers with resources to promote

land surveying within their classroom. All state associations are welcome to participate in this once a year event. The 2016 TwIST program will be held the third week in June. All state associations are welcome to sponsor teachers to this training.

Public Awareness – Elevator Pitch Contest

► An Elevator Pitch is a short summary (no more than 45 seconds) used to spark interest in the profession. WFPS is running a contest for the best elevator pitch to engage a member of the public and

quickly educate them on “What is a Land Surveyor” and “How a Land Surveyor Serves the Public.” Be creative and submit your pitch to MikeNadeau.UCLS@gmail.com by June 30, 2015. The winner will receive a \$100 Visa card.

Providing Resources to Benefit State Associations

► WFPS is dedicated to providing resources to state associations. Following are a couple of the resources currently being developed:

Speakers Bureau

This new resource developed by WFPS will provide state associations the ability to search for a speaker by name, geographic location, or by topic. The database will include a photo of the speaker, a bio, price range, and testimonials. State associations are currently in the process of sending in their recommendations for speakers.

Quarterly Book Reviews

Looking for content for your magazine or newsletter? WFPS will be providing a quarterly book review that state associations can publish.

Serving as a Regional Voice

WFPS serves as a regional voice for the surveying profession. WFPS has a long history of assisting state associations by providing support on legislative issues. This includes letters of support and resolutions for topics such as continuing education, four-year degree, and definition of surveying.

At the January Board of Directors meeting, WFPS took the following action to assist state associations with specific needs and to represent a regional voice for the profession:

- At the request of Colorado delegates, WFPS is drafting a resolution to support the title of County Surveyor.
- Past Chair Richard Heieren was appointed to represent WFPS on the newly formed NCEES Surveying Forum which will discuss the future of the land surveying profession.

NALS-WFPS Western Regional Conference

The NALS-WFPS Western Regional Conference was held April 16-19th at the Golden Nugget in Las Vegas, NV. The program included

Jeff Lucas, Jan VanSickle, and Gary Kent as well as other speakers. More information will be available on this Conference in the future.

Looking to the future, there is even more good news for UCLS members. As your WestFed Representative, I have been elected as WFPS secretary-treasurer. This means I will be the chair-elect at the end of this year, the chairman following that, and finally the past-chair. The UCLS has always had a voice on the WFPS board, but with this appointment, I challenge the members and the UCLS board to bring up surveying issues that can be brought to WFPS on a regional platform (and national as the NSPS always attend WestFed meetings). As your representative, I represent you, so please don't hesitate to contact me at MikeNadeau.UCLS@gmail.com.



About WFPS

The Western Federation of Professional Surveyors (WFPS) was formed in 1979. The Board of Directors includes two Delegates from each of the 13 western states. WFPS serves as a regional voice for land surveyors and meets quarterly to discuss practice issues affecting western state surveyors. For more information about WFPS and the state associations, visit WFPS.org

KEN HAMBLIN

2015 Utah Council of Land Surveyors Lifetime Achievement



BY SCOTT WOOLSEY



Ken was born in 1947 in Kanab Utah and moved to southern California while still a toddler. As a youth, he was busy in the boy scouts, playing on the beach, and with the help of his dad, built a surf board. Ken has many stories of working on cars and drag racing down main streets before graduating from Bellflower High School in 1965. Prior to enlisting in the Army in 1967, Ken worked for a car dealership. After basic training, he was sent to Vietnam as a heavy equipment operator. In addition to Vietnam, Ken also did a tour of duty in Thailand before separating from the Army in 1969.

At Phoenix Arizona, Ken worked for Ariel Mapping and learned land surveying skills. During the 70's, the economy slowed down and the family decided to move to the little town of Rawlins Wyoming. There Ken opened a gas station, appropriately named Ken's Texaco, and continued his surveying career by working for a local company - Robert Jack Smith - and for Union 76.

In 1978 Ken was offered a job with Bush and Gudgell in Salt Lake City but they needed a "temporary" Party Chief in St. George Utah. Ken worked so well with Maybelle and Gayle Day that the "temporary" position became a permanent position. During his career, he has

worked with many surveyors that are still his friends today. Ken worked for several other companies before opening his own business, Ken Hamblin Land Surveying. Ken became friends with most of his clients and had a special relationship with many of the employees that worked for him.

In 2011 Ken decided to retire and sold his business but continued working part time for Leslie and Associates.

His kids worked for the business at various times, however, Bryce did not like working in the heat. He even wrote a paper in his English class with the subject title "The worst job to have is being a Land Surveyor in Southern Utah". Bryce is now an engineer doing a job he swore he would never do. Jamie disliked filing all the plats and various documents that Ken failed to return to the filing cabinet. He would often send her out with information for the crew, however with the vague directions he gave, she would sometimes get lost trying to finding them. Fortunately, the family survived and learned about the business. They were told if they didn't get a job after high school they would be coming to work for him.

Ken has a variety of interests, including the drag races and NASCAR races in

Vegas and California. He loves a good car show and a junk yard is his favorite playground! Now his biggest role is taking care of his three grandkids who are his pride and joy.

Like his father and grandfather before him, Ken is proud to be a veteran of the U.S. Army. Now his son Bryce is serving in the Air Force in Minot ND. Ken continues to serve the veterans as a volunteer driver for those who have doctor or other appointments with the Veterans Administration in Salt Lake City. He drives the veterans up and back in the same day. Ken is also President of the 5th Maintenance Battalion where he organizes activities and plans reunion. He enjoys visiting with old friend and making new ones. The UCLS has been an important part of Ken's career. He has held many leadership positions - often more than once. He has played a major part in the growth and success of UCLS. He was instrumental in organizing the first conventions in St George and participated in the planning and guidance of many conferences since then. He is proud of his accomplishments and thankful for all his friends that helped get him where he is now.

Thank you for this special but well deserved honor!

Continued on page 14

Congratulation Ken in receiving such a great award. There is no one I know more deserving.

While working for Ken, I remember walking into the office, grabbing a folder and then hear Ken say “now get your butt to work.” I also remember Ken watering his plants with coffee every day. Those damn things are going to outlive us all.

All fun set aside I loved working for Ken; he was not only the best boss and teacher of surveying I have ever had, but he was honestly interested in my wellbeing. I could always go to him for any advice on surveying or life. He was and is a true friend. (By the way Ken I was just looking at my resume and we have known each other for 23 years). Because of you I still have a great career in surveying.

I wish I could be there to see you receive this great award, but like you always said, I have to get my butt to work.

Again congratulations and thank you for giving me a great career.

**Your friend and former employee,
Troy Mitchell**

I first met Ken when I went to work at Aerial Mapping Company in Phoenix, Arizona in 1971. Our work consisted primarily of large area survey control for photogrammetric mapping projects.

We worked in just about every part of Arizona and surveyed for projects in Colorado, Wyoming, and Montana. One of the largest was route surveying for several hundred miles of roads on the Navajo Indian Reservation. We lived in trailers miles from any town. On many of these projects we remained on site until they were completed. The survey needed to be calculated (no portable calculators in those days) and checked before returning to Phoenix.

Once, we had been traveling on a jeep track and started to cross an area of swampy ground. I spotted something to shoot at (yes we did that in those days) and told Ken to stop the truck. I wasn't paying attention to what kind of ground we were on and when Ken stopped we sank to the axles. We got out and began trying to extricate ourselves. It was a mess. It was so soft and wet that the jacks would just sink into the ground. Picture two grown men in clothes covered with mud, knee deep in crud, cussing and arguing over whose fault it was that we were stuck. I insisted that Ken should never have stopped the truck since he was driving and Ken insisted that it was my fault since I told him to stop. We almost came to blows when we stopped, looked at each other, and started laughing. We both recognized that we had been out of town for a while and the “grumps” were setting in.

Ken and I had a lot of great survey experiences together and to cover them all would be a lengthy endeavor. Blizzards in Montana, baking desert on the Army's Yuma Test Range, living and working in the boondocks. It was a good time to be a surveyor. I know that Ken is well deserving of this award for his many contributions to the profession of Land Surveying but I will always thank him the most for getting rid of Ralph.

**Way to go Ken,
Stuart Lang**

Grammar school teachers often arranged students at desks alphabetically. Because of this, in the 5th Grade I found myself sitting in front of Ken Hamblin. This began a life of friendship, adventure, and often trouble with the boy, and then the man who I consider my “Brother” to this day.

We spent many hours together at school, in the Boy Scouts, cruising Bellflower Blvd., and just hanging out bench racing. I remember a day when we were working together and at quitting time we had a contest to see who could get out though the gate first, which resulted in us backing into each other with our first cars.

There were weekend trips to Lion's Drag Strip, where we caught the “speed bug” for life and now enjoy NHRA and NASCAR.

Ken and I proudly served in the Military during the Vietnam conflict.

Ken had an opportunity to work outside of California and started a new career and family.

I was honored to be Best Man' at his wedding in Wyoming and our families remain close friends.

Using the skills he learned on his life journey, Ken has made a name for himself. As I like to call him

KEN HAMBLIN – SURVEYOR EXTRAORDINAIRE”

**Paul Hamilton
Childhood Friend from Bellflower, CA**

When I was asked to reflect on our relationship with one another I felt compelled to start in the beginning when you first came to work for Bush & Gudgeon as a Party Chief. This person needed to be able to learn over a short period of time to fill the position we had to offer. In addition the person needed to exemplify a personality that we could work with. I remember we hired and let go numerous applicants over the course of the following year until you landed on my door step so to speak. I was somewhat skeptical of your ability as a surveyor based on your previous place of employment. Seriously - a mine surveyor?

I found that you had an extraordinary ability to learn quickly. However, I do need to mention that silly looking red loggers cap you wore, gave me the opinion that you were a true honest to goodness redneck. Just maybe this is why we embraced each other as true fiends for the past forty years.

You always viewed me as a redneck when I would have you make corrections to the survey maps you submitted for review and approval. Your favorite quote about me was “arguing with The City Surveyor is like wrestling with a pig in the mud after a while you realize he enjoys it.”

Ken, I always appreciated your willingness to serve your fellow surveyors through the positions you dedicated your time and efforts to involving the Utah Council of Land Surveyors. This Lifetime Achievement Award you are receiving is a reflection of your dedicated service to the surveying profession. Congratulations!

Larry Bundy St. George City

SCOTT BISHOP

2015 Utah Council of Land Surveyors Surveyor of the Year

BY KEVIN BISHOP



Our 2015 Surveyor of the Year is a good looking bloke, at least that is what he tells himself when he looks in the mirror each morning. He loves the mountains and the outdoors and will take any excuse to dress up in full camouflage. He recently gave up the rifle deer hunt for the earlier, more challenging black power hunt and is constantly on the lookout for an open field of unsuspecting geese. He sincerely believes a group of geese fly past his office widow on a regular basis just to taunt him. He loves baseball and enjoys a Saturday morning on the golf course. He loves sushi, so much so that I un-

derstand he has learned the tricks, owns an apron and taught himself how to make a mean spider roll. He earned his Eagle Scout award at the age of 15 and was a fierce competitor at the Pinewood Derby, he was fast and furious long before Vin Diesel was.

He grew up in Utah County as the 5th of 7 children. I understand the older ones got all the good looks and younger ones made up for it with their height. He learned how to work at a young age by mowing lawns and doing landscaping and yard work with his father and brothers. He served a mission for his Church in Atlanta, Georgia and after overcoming the language barriers, and culture shock, loved the work, loved the south and the people and has been back for work and pleasure on multiple occasions.

He has been happily married to his wonderful wife Kristy for 13 blissful years, and they are the parents of 4 beautiful young girls. He truly is a family man and spends all his spare time with his girls.

Scottie began surveying in the summer 2000. He is one of the few that didn't "fall" into a career in surveying. There is nothing accidental in Scottie's career choice as a professional land surveyor. He knew that he wanted to become a land surveyor and he actively sought out a job and schooling to move his career along.

He was initially licensed in 2005, at the age of 26, much younger than most of us. He is currently licensed in Utah, Arizona and Nevada and is a Certified Federal Surveyor (CFeDS). He began his career with Francis Eickbush of Eickbush & Associates in Lindon. He took a leap into the public domain and spent the next 6 years working with the Bureau of Land Management (BLM). He then left the BLM to jump back into the private sector with Insite Engineering in Cedar City and currently work at Horrocks Engineering out of Pleasant Grove.

Scott graduated with a Bachelors Degree in Geomatics Engineering from Idaho State University in 2004. (I think he minored in interpretive dance?)

Scottie is a registered merit badge counselor with the Boy Scouts of America for the Surveying merit badge, the Drafting merit badge and Orienteering merit badge. Over the past several years he has worked with multiple scout troops and taught the principles and practices required for these merit badges to dozens of scouts with the Scouts earning over 40 merit badges.

He has been very active in the Utah Council of Land Surveyors (UCLS) for over a decade. He has served as the Color County Chapter President, on the convention committee, on the construction committee, and as a member of the Geomatics Advisory Board at Utah Valley University (UVU).

He is currently serving as the survey representative on the Division of Professional Licensing (DOPL) board. He serves on several committees associated with the National Council of Examiners for Engineering and Surveying (NCEES). While living in Cedar City he taught a basic surveying class at Southern Utah University (SUU) and this past year was added as an adjunct instructor at UVU to teach the property descriptions and public records class there.

He travels three or four times a year as part of his duties with DOPL and NCEES. He has been working on questions for the FS and the PS national exams. He is also sits on a committee determining how to encourage younger men and women to consider surveying as career. When traveling, he always tries to take time to see the sites, go somewhere unique and enjoy the local culture. When out of state he only eats local, meaning if you can get it back in Utah, it is off limits. He always loves to catch a baseball game and check out the local stadium if possible.

He has surveyed land from Logan to St. George and from Vernal to Wendover. He has walked the banks of rivers, streams canals and ditches. He has surveyed over bridges, under



viaducts, on airports and literally dozens of miles along the interstate highway. He has been to many of the state corners marking the boundaries of Utah with our adjoining states. I believe he has set up his GPS and occupied a point in nearly every county in the state of Utah. He has seen rattle snakes in the desert and elk in the snow covered mountains and everything in between. He loves our profession, he loves to teach it, he loves talk about it and if necessary, to defend it. He always does his best to give surveyors a good image, to raise our profession in the eyes of our associates and to project integrity, honesty and class in every project. He represents land surveyors well and is ever the consummate professional. I consider this man my friend. He has been my teacher and my mentor. And even on my worst day, he still claims me as his brother.

Our 2015 Surveyor of the year, Mr. Scott Bishop.



2015-2016

UTAH STATE TRIG-STAR RESULTS

This year the UCLS was successful in sponsoring eight high schools in the Trig-Star Contest. Several hundred students participated in presentations about math and surveying as a result of these efforts. These presentations included introductions to the surveying profession and the higher education opportunities offered in this state.

Sixty two of the students who participated in the initial presentations continued with the contest portion and completed the Exam. Below is a table showing the State Results showing the twenty two qualifying local level winners. All of these local level winners received a cash prize associated with the first, second and third place awards. The Top three scoring winners also received state level prizes. All together the UCLS awarded \$3,550.00 in prizes this year.

This year's State Winner is Collin Free from Syracuse High School. He is eligible to participate in the national level contest in the next couple of months.



TRIG-STAR	2015-2016		STATE	CONTEST	WINNERS
School	Teacher	Student	grad year	Points	Time
Syracuse	Martin	Collin Free	2018	86	0:39:14
Provo	Graves	Marissa Angell	2019	78	0:45:05
Clearfield	Martin	Jeremy Green	2016	78	0:51:35
SpanishFork	Ward	Austin Harris	2017	78	0:52:53
Timpview	Taylor	Bridget Kawai	2018	78	1:00:00
Timpview	Taylor	Mingyu Kim	2019	73	0:49:30
Clearfield	Martin	Elisabeth Budd	2017	73	1:00:00
SpanishFork	Ward	Abbigale Walker	2017	72	0:47:31
Clearfield	Martin	Treydn Fitzwater	2017	70	0:52:29
Provo	Graves	Ashley Edwards	2018	68	0:57:49
Timpview	Taylor	Samuel Sanft	2019	62	1:00:00
Hurricane	Cahoon	Riley Stratton	2017	59	0:59:40
SpanishFork	Ward	Jaden Deveraux	2016	50	0:48:14
Provo	Graves	Sarah beaumont	2017	48	0:45:13
Gunnison	Otten	Miles Poulson	2017	48	0:56:30
Hurricane	Cahoon	Kery Adams	2017	43	0:35:50
Hurricane	Cahoon	Talia Wilcock	2017	40	0:37:15
DRA	Henwood	Keegan Carson	2017	36	0:54:00
Gunnison	Otten	Matt Carlisle	2017	34	1:00:00
Gunnison	Otten	Ryan Anderson	2017	30	0:43:05
DRA	Henwood	Jordan A. Zanoloni	2016	20	0:54:40
DRA	Henwood	Quentin Manley	2018	13	0:32:20

UCLS 2015 PLAT COMPETITION

ALTA/ACSM LAND TITLE SURVEY

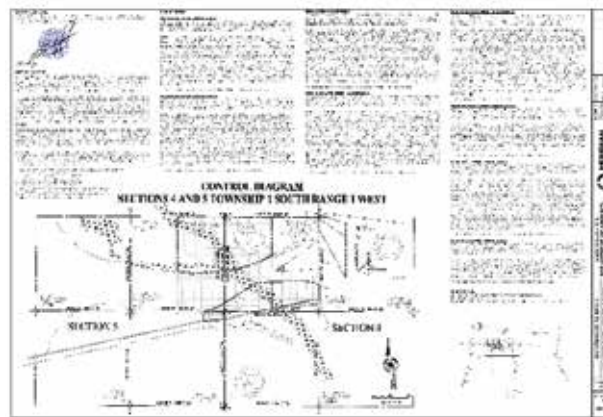


1. Michael Nadeau, Meridian Engineering
2. Blake Torgersen, Pasco Laret Suiter
3. Phillip Christensen, Epic Engineering



RECORD OF SURVEY PLAT

1. Michael Nadeau, Meridian Engineering
2. Blake Torgersen- Grand Ave., Torgersen Surveying
3. Tim Johanson, Johanson Land Consultants



TOPOGRAPHIC SURVEY PLAT



1. Blake Torgersen- Stone Ranch, Pasco Laret Suiter
2. Michael Nadeau, Meridian Engineering
3. Tom Johanson, Johanson Land Consultants

CORNER REPORT

1. Kent "Sam" Cantrell
2. Blake Torgersen

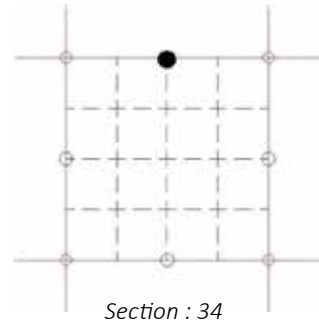
GCDB I.D.: UT260360S0230E0_440200
 SJC I.D.:3623N34
 Township: T36S
 Range: R23E
 Section: 34

San Juan County Survey Office
 Section Corner Record



State Plane Coordinate System Data/GEOID 12 a NAVD 88:

Coordinates Determined From:		Utah Reference Network Control System	
State: Utah South Zone: 4303	Units: US Survey Feet	Meters	
Northing:	10196931.948	3108031.053	
Easting:	2255419.44	687453.216	
Elevation:	6054.889	1845.53	



Geographic Coordinates NAD83(2011) epoch 2010

North Latitude:	37°37'15.202" N	
West Longitude:	109°22'35.016" W	
Ellipsoid Height:	5989.416	1825.574



All bearings to accessories are true bearings.

Original BT section 34: A 14" diameter Cedar bears S18°17'E, 44.88' top of tree is broken off by high winds remainder of tree is likely dead.*

New BT section 34: A 36" diameter Cedar bears S55°E, 45.8'

Bearing Object section 27: Center of a 4' steel well casing 1" below ground bears N64°41'49"W, 25.73'

*Denotes a discrepancy between field notes and actual conditions/evidence. N8°W is equal to N18°17'W with declination adjustments.



Field Observations/Surveyor Narrative:

At the corner location the only remaining evidence of the 1912 GLO corner is the original section 34 bearing tree aforementioned. A diligent search of the area yields no additional evidence. Positions calculated from a found monument at the NW34 and a point at NW35; being calculated from the found W35, agree for latitude and overlap by 4.16'. These locations differ greatly from reported directions from the official field notes. I determine that several factors contribute to the discrepancy. A bearing without declination adjustment was returned with a transcription error of the distance.

Record was 88lks. (58.08') however at 68lks. (44.88') I intersect the calculated points. These type of errors are not uncommon at other existent corners of this survey. I set a new aluminum monument 12" in ground with a magnet beneath as

a memorial and build a mound of stone to the cap N18°17'E, 44.88' from the original BT. I establish a new BT as mentioned and place an SJC washer with mag nail and yellow plaque upon it for identification purposes, I establish a tie to a well casing in section 27 due to lack of trees. A two track road running E-W is 20' north of the corner. Area north is cultivated field, a mound of ancient ruins 200' north on knoll, and south is partially timbered with Pinion and Cedar and sage undergrowth.



Photo I.D.: C100_1015.jpg
 Record of Survey References: None on file.
 PLSS Book #: 3 Page #: 46-47
 Field Surveyor: B. Musselman J. Regalado
 Date: November 19, 2014

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MEMBERSHIP



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2015/2016

UCLS SCHOLARSHIP RECIPIENTS

RYAN MCCHANCEY

2015/2016 UCLS Scholarship Recipient



Ryan was born in Texas and grew up in Georgia. He moved to Salt Lake City in 1999 after high school for the “Greatest Snow on Earth”, and college. He first worked at Snowbird Resort to get as much snowboarding in as possible, which allowed less time for college. Ryan soon fell in love, got married, and started a family. Ryan then

worked for four years in the tree care industry as an Arborist before trying his hand as a real estate agent. He soon realized he did not like the stress of real estate and really missed being outdoors. Ryan chose surveying because he wanted a highly skilled profession that would allow him to use his brain and to work outside.

Ryan started his survey career in 2006 as a rod man and worked his way up to survey party chief. He has mainly worked in the field, not really being one to enjoy the office life. Ryan has had the opportunity of working on countless exciting and challenging survey projects. He has surveyed on projects in Utah, Wyoming, Idaho, Nevada, and North Dakota. Ryan is currently attending the survey program at Salt Lake Community College where he has taken classes through the years while balancing work and family. Ryan is the proud father of three children with his wife of fourteen years, Ashley. He enjoys time with his family in the wonderful outdoors Utah has to offer. Some of his hobbies are fishing, hunting, hiking, camping, boating, snowboarding, off road races, and anything else that allows him time outside. Surveying has been the perfect fit for Ryan and he has enjoyed all that it has to offer.

Daryl Brown

2015/2016 UCLS Scholarship Recipient



Daryl, the oldest of 4 children, was born in beautiful Laie, Hawaii while his parents were attending BYU-Hawaii. He stayed only until

he was five years old, when his parents then moved the family to the Salt Lake City, Utah area where they stayed for the remainder of his childhood. His father played rugby in high school in Samoa so once he found out about football he signed his boys up. Daryl started playing football in eighth grade and continued to play at Cyprus High School and then received a full ride football scholarship to Southern Utah University in Cedar City, Utah.

He completed one year of college at SUU and then served a 2 year LDS mission in Mongolia. During his time on his mission he had the opportunity to teach and serve the Mongolian people and of course try all sorts of fun foods including goat's head and sheep gut.

Once Daryl returned home he lived at home for one semester where he worked at

Old Dominion Freight Line. He worked there for 4 months until it was time to return to SUU for school and football. The first week of school he met a girl named Janelle Hansen and they were married 8 months later.

He and his wife Janelle lived in Cedar where she also attended SUU for Nursing and he worked on his degree in CAD/CAM with an Architectural emphasis. Between his schooling, being married and football they had 2 boys, Taivan and Kael. He still managed to do very well in school and in football. His senior year as a Captain of the team he was able to help their team win the Conference Championship. Also during his senior year he was able to work at Watson Engineering as an intern designer. This opportunity helped shape the career path that he would eventually be on.

After graduation Daryl and his wife wanted to stay in Cedar City, but were worried they wouldn't be able to find work. However, Daryl was able to get a job right after graduation with Metal Craft working as a Methods Engineer. During this time he and his wife were blessed

with a daughter, Jailee. He worked at Metal Craft for 18 months when another opportunity came again through Watson Engineering as a designer. Through working at Watson Engineering, Daryl decided to follow in the footsteps of his Father, Henna Brown Sr. and return to school and become a Professional Licensed Surveyor.

He enrolled at Salt Lake Community College and started the commute to and from Salt Lake for class every week. Even though it has been a lot of hard work and time dedication, Daryl still enjoys his hobbies with his family which include, playing basketball, hiking, camping, backpacking and skiing. He and his wife are expecting their fourth child in October.

"What a great journey this has been for me, and I am excited to continue my career in Land Surveying as a professional. I'm grateful for the UCLS scholarship program and the opportunity and assistance that I've received through it."
- Daryl Brown

Kevin Despain

2015/2016 UCLS Scholarship Recipient



I am super grateful for getting the scholarship! \$1,000 is a tremendous amount of money and definitely helps. The scholarship has helped me pay for

books and also help on the tuition. I took quite the pay cut on quitting my city planner job to focus on school and surveying.

I choose surveying because I have always loved maps and plans, dealing with boundaries, working outside, and all the history that goes with land ownership. It also helped that Walt Cunningham lived in my neighborhood when I started! He was only a little persuasive of the surveying profession!

I am currently in my second year of surveying school at Salt Lake Community College which I intend to complete December 2016. I thoroughly enjoy my classes. The instructors at SLCC are great.

I got my start in surveying through Dale Bennett at Benchmark Engineering in Sandy. I was working as a city planner for West Valley City at the time and had worked with his team on a few projects. I started working part-time and things opened up this March that I could become a full-time field surveyor. They are a great group to work with!

My goals this summer are to become a skilled survey tech in the field and also to study for and pass the FS exam. My career goals include getting licensed in 6 years and then work here in the Salt Lake Valley. My main interests are land devel-

opment projects, boundary work, and subdivisions. I intend to be involved with the UCLS the rest of my career. I am also involved in the community and hope to serve on Taylorsville City's Planning Commission in the next couple of years. With a bit of luck, I may possibly start my own surveying firm in 15 years. We'll see how the profession shifts and changes over the next decade. Either way, I'm excited to be a part of it!

On a personal note, I've been married 17 months and a few weeks (who's counting?) to my sweetheart, Alli. We are expecting a boy this October. We live in a simple house in Taylorsville just across the street from SLCC Taylorsville campus. I enjoy hiking, camping, cycling, and competing in triathlons. Life certainly is a lot of fun

UCLS Scholarship Auction

These items were donated and/or purchased during our 2015 conference.
Please contribute to the cause by participating in the 2016 scholarship auction.

ITEM DESCRIPTION	CONTRIBUTER	AUCTION	OWNER
Cabellas Table Top Grill	UCLS	\$ 55.00	Dallas Butters
Realtree Reversible Throw	UCLS	\$ 25.00	Shad Hall
American Wildlife Ammo Box	UCLS	\$ 30.00	Andy Hubbard
Cabellas Ball Cap	UCLS	\$ 5.00	Kent Setterberg
Tent/Dining Fly	UCLS	\$ 30.00	Harold Marshall
Cabellas Ball Cap	UCLS		
Handgun Case	UCLS	\$ 35.00	Dale Robinson
BLM Public Land Surveys	BLM	\$ 90.00	Ben Johnson
Electronic Distance Meter	ESI Engineering		
JBL Speaker	Rocky Mtn Transit	\$ 50.00	Scott Bishop
PLSS Patch	Merrill Cazier	\$ 7.00	Tim Prestwich
Surveyors Instrument Picture	Merrill Cazier	\$ 300.00	Donald Johnston
Saw Combo	Bonneville Blue	\$ 30.00	Andy Hubbard
Ground Plane Clock	ESI Engineering	\$ 30.00	Dusty Bishop
Drawing			
"The Surveyor on the Peak"	Monsen Engineering	\$ 150.00	Doug Kinsman
Drawing "The Stadia Crew"	Monsen Engineering	\$ 85.00	Brad Henlyn
1881 Salt Lake City Map	SL County Surveyor	\$ 40.00	Doug Kinsman
1887 Salt Lake City Map	SL County Surveyor	\$ 60.00	Doug Kinsman

TOTAL AMOUNT CONTRIBUTED \$ 1022.00

Many thanks of appreciation to those who donated items and to those who purchased them.
Your contributions will benefit future surveyors through the UCLS Scholarship program.

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FAA Makes Progress Accommodating Commercial UAS Operations

BY ERIC GAKSTATTER

The Federal Aviation Administration (FAA) took a major step forward in expanding commercial UAS/UAV operations in the U.S. airspace. It's chief said April 19 that the FAA is preparing to take another major step forward in further opening up commercial UAS/UAV operations by eliminating the need for a 333 Exemption for operating small UAS/UAV.

On March 29, the FAA announced it was doubling the altitude for blanket nationwide CoAs (Certificates of Waiver or Authorization) to 400 feet above ground level (AGL). The FAA has typically issued a blanket nationwide CoA with each 333 Exemption it has granted.

Before the announcement, the maximum altitude allowed for commercial operations under the blanket CoA was 200 feet AGL. Now, it is 400 feet AGL. At the stroke of a pen, the 3,000+ 333 Exemption holders with blanket CoAs are now authorized to fly to 400 feet. This is significant because UAS operators can now fly higher and cover more area more efficiently, and still meet the precision and accuracy requirements of most clients.

Another announcement, perhaps even more important, was made by FAA Administrator Michael Huerta, who spoke at the 2016 FAA UAS Symposium held April 19-20 in Daytona Beach, Florida. Huerta announced that the FAA is close to finalizing the FAA rules for small UAS.

"In late spring we plan to finalize our small UAS rule to eliminate the need for most 333 exemptions," Huerta said. He was referring to the Small UAS Notice of Proposed Rulemaking (NPRM) that was announced Feb. 15, 2015, and opened for public comment through April 24, 2015. There were 4,650 public comments made. You can read the comments about the proposed rule here.



The proposed small UAS rule differs significantly from the current FAA requirements for operating UAS in the United States for commercial purposes. One of the major differences is that there will be a "UAS operator's certificate" created so that commercial UAS pilots will no longer be required to have a FAA Pilot Certificate. Currently, the FAA requires commercial UAS pilots to have at least an FAA Sport Pilot certificate, which requires a substantial investment in money and time to achieve.

To summarize, the general proposed small UAS rules are:

UAS pilot

- Must be at least 17 years old.
- Must pass an aeronautical test at FAA-approved testing center, and renewed every 24 months.
- Must be vetted by the Transportation Security Administration (TSA).
- Must obtain an unmanned aircraft operator certificate with a small UAS rating

UAS operation

- UAS must weigh less than 55 pounds.
- Pilot in Command or Visual Observer must maintain visual line of sight (VLOS).

- Can't operate over people who are not part of the UAS operation.
- Daylight operations only.
- Yield to manned aircraft.
- May use Visual Observer (VO), but not required.
- First-person view camera cannot satisfy "see-and-avoid" requirement but can be used as long as requirement is satisfied in other ways.
- Maximum airspeed of 100 mph.
- Maximum altitude of 500 feet AGL (above ground level).
- Minimum weather visibility of 3 miles from control station.
- Can't operate more than one UAS at a time.
- No careless or reckless operations.
- Operations in Class B, C, D and E airspace are allowed with the required ATC permission.
- Operations in Class G airspace are allowed without ATC permission.

With these rules, neither a 333 Exemption nor a CoA is required, which would significantly ease the requirements for a surveying or geospatial company to begin offering UAS services.

Monument Games

Troubles in Syracuse City (the Gateway to Antelope Island)

BY BRAD MORTENSEN



This last summer, Syracuse City finally started some road reconstruction in my neighborhood. We had lived there for about 16 years and most of the roads were fine, but the sections where everyone entered the subdivision were showing major wear with constant potholes and deterioration of full sections of roadway. The cross street just south of our cul-de-sac went through a complete reconstruction including the replacement of the base courses.

Of course it was a mess and inconvenient, but eventually they demolished the manhole covers and other utilities boxes so they could lay the pavement. After the pavement was in place they began to saw cut and dig up the utilities so they could raise and pour collars for the manhole lids and other utility covers. I noticed in the intersection just southeast of my home as I drove by one day that the contractor had raised every cover in the intersection except for the centerline monument ring and lid.

It just happens that I know the City Engineer, he lives in my neighborhood and we have been in the same congregation for the last 10 years. So, when Sunday came around I spoke with him personally and I raised the question. He assured me that the contractor was supposed to restore everything in the intersection, but that he would check on it. Then as a second thought he said that they were having a lot of problems with the monuments being pushed up and breaking down, creating problems. I said that this monument was in a ring and lid and there had been no visible movement with it as I drove by it every day.

I waited a week or two and received no report so I went on the city website and used their contact email system to send a note asking if the city engineer had a chance to check into the matter. A week or two later I received the following email from one of his associates:

Thanks for your inquiry on the survey monument at 3300 South and 930 West. The only survey monuments we replace are the county monuments on section/quarter corners. Below are a couple reasons we do not replace any other monuments:

1. Utah code 17-23-17 requires any survey to be tied to two or more section or quarter corners. The internal street monuments are nice to reference to, but we cannot justify the cost to the taxpayers to replace and maintain them when surveys must be tied to the section monuments anyway.
2. We have too many issues with the collars on the monuments breaking and they become maintenance problems. We have several every year we have to go out and remove because the collars do not hold up.
3. Typically by the time the City gets around to replacing a road, the subdivisions are well established and any potential survey errors have been resolved.

If you have any further questions or concerns please feel free to contact me.

Thanks,
City Engineer

I was Flabbergasted!

Needless to say it was very disappointing to read this answer.

I reviewed the City Code and Standards and saw that they indicated the use and perpetuation of street monuments as well as PLSS corners. In fact the City Engineer later told me that this monument replacement/removal scheme "was not a City Policy per say, but it was a practice for a time."

I thought about it for a few days and sent the following email:

Mr. -----

I am sorry to hear your reasons for what seems to be a conscious and voluntary disregard of the need to use reasonable care, which is likely to cause foreseeable injury or harm to persons, property or both.

First I believe you are mistaken in the meaning of 17-23-17, as you left out the last 8 words from the line you quoted:

(d) the distance and course of all lines traced or established, giving the basis of bearing and the distance and course to two or more section corners or quarter corners, including township and range, or to identified monuments within a recorded subdivision;



The surveys of the properties in the subdivision can and should be tied to the monuments set at the time the subdivision was created. See attached Subdivision plat for the monument in question.

Second if you are having problems with the monuments breaking down that should be an item in your asset management plan. If the monuments are built in accordance with your standard drawing sheet 2 there should not be any problem with frost pushing them out of the ground. They should be similar to your maintenance of water valves. I have lived in this subdivision for 15 years and I have not seen any problems with the ring and collar monument covers in this area, so I suspect that this second reason is just an excuse to cover up poor planning of asset management, or lack of proper inspection during construction.

This brings up another question - when you go out every year for these broken monument covers do you remove them and replace them with new ring and

collar covers, or do you simply remove the monuments altogether?

Third your last reason shows an ignorance of boundary law and an inadequate knowledge of the facts to make a competent evaluation of the subject matter. Every time there is a change in ownership there is a potential for conflict that could cause high costs to your citizens of both a financial and time commitment, when it goes to court. By the time the city gets around to repairing the streets all the monuments around the lots have been taken out by fence lines and some of the best evidence of the original surveyor's work is the monuments in the street.

Every year I go to a conference where we review some of these court cases and to my recollection not one of them has been about a property that was just established in the last few months or even last year. They are mostly about properties that have been established for many years and conveyed several times.

When the city makes a conscious and voluntary decision to remove and not replace the street monuments in the subdivided properties within their jurisdiction they raise the price of a survey for a given property several fold. They also increase the probability of latent ambiguities in the performance of retracing the boundaries, again increasing the time and cost.

It just sickens me when I hear reasoning of this nature - just last month there was a perfectly usable monument in that intersection (I had used it several times), but now it is gone simply because the city decided it was not worth the \$500 more or less to reestablish it along with the manholes and water valves just a few feet away. How many additional monuments have disappeared in the city over the past years? How long has this been a policy in the city? It certainly does not conform to accepted engineering and surveying standards and practices within this state.

In my opinion this kind of wanton disregard for your duty to the public approaches gross negligence and unprofessional conduct (see R156-22-502 (5) & (8)).



I am sorry but this cannot continue, please advise me as to how you intend to right this wrong.

Sincerely,

Before sending this email I again spoke to the City Engineer and let him know that I was sending a response to his associate's email. I also let him know that I was copying the email to the County Surveyor and The Salt Lake County Surveyors group in an effort to help spread information, as Salt Lake County has developed agreements with many of the Cities in that County to assist in the management and perpetuation of these types of monuments.

I used some strong words, "this kind of wanton disregard for your duty to the public approaches gross negligence and unprofessional conduct," are they really appropriate in this case?

Looking at the definition of Gross Negligence we see:

Gross Negligence

An indifference to, and a blatant violation of, a legal duty with respect to the rights of others.

Gross negligence is a conscious and voluntary disregard of the need to use reasonable care, which is likely to cause foreseeable grave injury or harm to persons, property, or both.

<http://legal-dictionary.thefreedictionary.com>

Wouldn't it be reasonable care to replace the Cities asset especially when it was in good condition before the street reconstruction? Did the City consciously and voluntarily disregard this duty to use reasonable care? Is there a likely chance that these actions could cause injury to property?

Looking at the State Rules for Professional Engineers and Professional Land Surveyors we see:

R156-22-502. Unprofessional Conduct.

“Unprofessional conduct” includes:

(5) failing to hold paramount the duty to safeguard life, health, property and public welfare by approving and sealing only those design documents and surveys that conform to accepted engineering and surveying standards; ...

(8) expressing a professional opinion publicly when it is not founded upon an adequate knowledge of the facts and a competent evaluation of the subject matter;

Did the City approve the documents that left out the replacement of the street monument? Did the contractor simply forget to perpetuate this corner? Does the City Engineering staff have an adequate knowledge of the facts and a competent evaluation of the subject matter to express a professional opinion with respect to possible boundary conflicts that could happen in the future?

FINALLY HERE ARE SOME STATE CODES THAT ARE APPLICABLE – FOR YOUR OWN REVIEW:

17-23-13. Setting monuments.

17-23-14. Disturbed corners -- County surveyor to be notified. (A person who finds it necessary to disturb any established corner in the improvement of a road, or for any other cause, or finds a monument that needs rehabilitation, shall notify the county surveyor.)

17-23-15. Removal, destruction, or defacement of monuments or corners

as misdemeanor (guilty of a class C misdemeanor - responsible for: the costs of reestablishing the survey monument, corner, or witness corner; and any necessary legal action)

17-23-17.5. Corner perpetuation and filing (Salt Lake County interprets subdivision and P.I. monument to be an accessory monuments to the public land survey system.)

17-23-19. County permitted to establish Public Land Corner Preservation Fund ...

76-8-415. Damaging or removing monuments of official surveys. (guilty of a class B misdemeanor.)

HOPE AT THE END OF THE TUNNEL

The other night the Syracuse City Engineer came by my house to let me know that he had spoken to his surveyor and the County Surveyor and that they (the City) were in the process of replacing the subdivision street monument in my neighborhood. He also said that there were six other monuments that had been destroyed in the same manner in the past couple of years. He indicated that they were working on replacing them also with help from the city’s contract surveyor. He wanted me to know that they were working on it but that it would take a little bit of time.

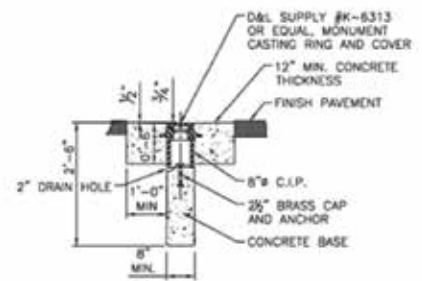
Shortly after that I noticed that straddle nails had been set in the intersection. Now I am waiting for the winter to end so I can watch for the reconstruction of the monument in my intersection.

HOPE AT THE END OF THE TUNNEL?

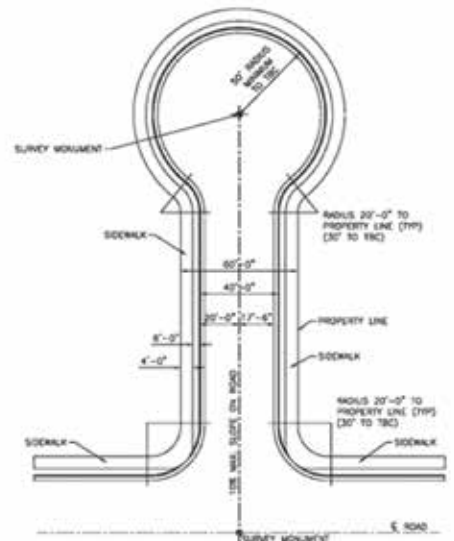
A friend reminded me of the following:

“How will the city know if the monument is correctly replaced? A coordinate? Hand ties? The location of the original monument controls – regardless of a mathematical tie.

We (Private and County Surveyors) need to be proactive rather than reactive.”



1 SURVEY MONUMENT SECTION
SCALE NOT TO SCALE





On the Light Side!



BY JIM KAISERMAN

About 1998, Wasatch County sold, at tax sale, a parcel of land.

When plotted, this parcel impacted nine property owners and +/- 70 acres of ground. It should not have been sold - but that is another story.

After 13 years, two lawsuits, numerous meetings, four attorneys and three surveyors measuring, plotting, and more ugly meetings, our office came up with a master solution where most owners were made whole and boundary discrepancies went away. A master agreement was prepared and which many of the owners had signed - including two brothers of advanced years.

The two brothers came into my office and told me that they had been to the site, measured the roadside distance, and believe the dimension of one brother's parcel was wrong; and all of our documents were off by ten or more feet.

The master agreement indicates the distance to be 675.23 feet, however the brothers' record distance was 660 feet, and therefore the brother had been shorted.

I send a field guy out with our latest and greatest Trimble GPS unit and the measurement is found to be 675.24 feet. I tell the brothers but they still say it is wrong. So I take my guy out and we hand measure a distance of 675.25 feet between the pins.

The brothers came in again and said the distance is still wrong, so I asked them how and with what they used to measure the 660 feet. The older brother said, "We have an old piece of rope that is 110 feet in length and we used it to measure the 660 feet."

As politely as I could I asked them to leave.

UTAH COUNCIL OF LAND SURVEYORS SURVEYING OLYMPICS

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Tripod & Tribrach Set-Up	Bonneville Blue	Charles Heaton
Guess the Angle	Monsen Engineering	James Coutts
Guess the Elevation Difference	Rocky Mountain Transit	Dalen Harris
Guess the Slope Distance	GeoMax	??

UVU Geomatics Graduates Complete Capstone Projects

BY DANIAL L. PERRY, MBA, PLS, UVU GEOMATICS PROGRAM COORDINATOR



The purpose of the SURV 4290 Geomatics Capstone course is to “provide an opportunity for a senior Geomatics student to participate in a significant and current research project which will advance the field of Geomatics.” The graduates from this year met this standard and then some, similar to previous graduates from the Utah Valley University Geomatics Program. The following are highlights of their projects which illustrate the high level of interest and dedication to our profession that these young professionals have exhibited.

Establishing New Benchmarks for Utah County, Bryan Worthen and Brian Boehmer

The Brian’s, (which spelling to use is a problem) as they are known in the 2016 student cohort, decided to work together on this capstone project because they needed to not only establish some new benchmarks in northwest Utah County but in doing so they knew they would need to run level loops to ensure the vertical accuracy of the benchmarks so after 14 miles of level loops and coordination with Utah County Surveyor, Gary Ratcliffe they set two benchmark monuments, one in Eagle Mountain and the other in Saratoga Springs both of which will be used by many surveyors in the future since this area will be one of the highest growth areas in the State.

Continuing Education; Improving Competency and Professionalism through Continuing Education, Andy Chipman

Andy decided to do research on the continuing education programs in many states around the country, the National

Conference of Examiners of Engineers and Surveyors and our own Utah Surveyors. He collected primary empirical data from the Utah Continuing Education program for licensed surveyors: 1) If college courses are used for PDH credit the we must require a passing grade from a college course to count for PDH credit. 2) If committee service is used as PDF credit then we must require a full year of service on a committee to count for PDH credit and 3) We should have some level of Ethics and also Business as requirements for PDH credit every two years. Andy made his presentation to the UCLS board which subsequently decided to review the applicable rules for possible revision.

National Geodetic Survey GPS on Benchmarks for Cache and Rich Counties, State of Utah, Robert Hickman

Robert chose to get involved in the Height Modernization process in two northern counties where he was born and raised. Selecting from over 40 potential NGS monuments Rob was actually able to submit 15 usable and effective monuments to first OPUS and then of course the National Geodetic Survey (NGS). This project will help the accuracy of future Geoids as applied to Utah.

Wayne County; GIS Department Creation & Improvement Surveying Standards & Specifications, Brandon Jensen

Brandon spent a lot of time over and above the call of duty as he worked for Wayne County in establishing their GIS department and writing and implementing their standards and

specifications which will be used by future staff. Additionally, his work will directly impact land development and other related agencies in the entire Wayne county area. His collaboration with other neighboring counties also paved the way for a positive impact on the region.

Scholarly Journal Publishing, Burke Jensen

With scholarship recognition in mind Burke began to explore the possibilities of providing a place to have Surveying and Geomatics Scholars, Educators, and Graduate students present their research findings and scholarly work in a credible and recognizable manner to the surveying community. While his project morphed into something different than he imagined Burke continued to persevere through collaboration with prominent people like Charles Gilhani and Curt Sumner. He eventually arrived at a proposal for undergraduate scholarship recognition on a national level through the NSPS.

American Fork City Sidewalk Inventory, Carolyn Kidd

Carolyn first took on the whole City of American Fork but soon found out it was way more work than any one person could do so she changed her project to the program level of administration, testing, data collection systems and collaboration with the GIS department. As additional financial and physical resources become available the City is poised to complete this project with systems and processes in place that have been tried and proven to be accurate, reliable, and sustainable.

Geospatial Graduate Guide Book, Nelson Orton

Nelson became interested in developing a Geomatics Graduate Guide a few years ago because of his own personal interest in higher education. This guide will serve hundreds of surveying students around the country or world (depending on how widely his work will be published) who are interested in learning about the opportunities available to them in graduate school. Nelson's research included such useful information in his database

as; Program Type, Areas of Specialization, Masters and PhD degrees, Faculty credentials, Cost of Living, and Entrance requirements to name a few. This guide may be published in a digital format accessible online but regardless of delivery it will be a sustainable system.

Archiving Utah's Survey History, Michael Nadeau, PLS, CFeds

Mike's love for surveying history and Utah surveying history in particular caused him to want to expand significantly on a project that previously had only been initiated by the UCLS History Committee. His project included the submittal of over 300 documents, maps, and pictures to the Mountain West Digital Library (MWDL) hosted at Utah Valley University (UVU). This site is the official historical repository of the UCLS and thanks to Mike the items now available for viewing by not only the Utah surveying community but the general public at large. See a link to this site in future UCLS publications.

Land Use Potential, Larena Parmley

Larena worked with Mountainland Association of Governments (MAG) to complete this project which had to be narrowed in scope from remote sensing analysis in GIS of the entire Utah County to a representative land use test area located in Utah County. She implemented GIS systems, programs models, and GIS python scripting in order to accomplish and perfect a process that can now be used by MAG for eventual analysis of all Utah County lands and their potential development.

Discover Land Surveying: An Invitation for the Next Generation, James Darling

James took an entirely different approach to selecting a "significant ... project which will advance the field of Geomatics" by developing a project that will impact the youngest generation. After coordination and collaboration with the City of Spanish Fork; Parks and

Recreation and Brad Mortensen with UCLS and TrigStar, James developed a program to capture the interest of young people ages 6-12. He developed several sites located in some of the city parks which, for example, would have children take simple measurements and calculations for the amount of sand required for an outdoor volleyball court.

Section Corner Tie Sheets, A Look into Utah County's Tie Sheet System, Darrell Flake

Darrell got involved with Gary Ratcliffe and the Utah County Surveyors office by creating CAD/digital tie sheets on hundreds of PLSS corners in the county the only records of which were from original survey field notes. While the field notes were complete and accurate they were not in a presentable form for public use and could not easily be made available to the surveying community via digital means. Gary really appreciated this service and invited others to participate in the future. These newly minted tie sheets will eventually be available to the BLM and AGRC.

Wasatch County GIS Parcel Map Update, Branson Munford

For those surveyors who have performed surveying services in Wasatch County they know the county PLSS system has some very interesting and confusing monumentation. Since inheriting these issues Jim Kaiserman has needed many resources to straighten things out for future surveyors. Branson's project was directed at the heart of these issues by adjusting the GIS survey layer to meet current PLSS monuments.

Each of these projects represents not only the level of expertise of the UVU graduates but also the level of surveyors entering our profession. Each of these students has shown a desire to be engaged in surveying as a professional and to make life better for all of us. I am so proud of each of them for the contribution they have made and will make on the future of surveying.



United States Department of the Interior



BUREAU OF LAND MANAGEMENT

Utah State Office

440 West 200 South, Suite 500

Salt Lake City, UT 84101-1345

<http://www.blm.gov/ut/st/en.html>

IN REPLY REFER TO:
9630(UT-925) P

FEB 0 2 2016

Chair, Utah Council of Land Surveyors
Attention: UCLS Publication Committee Chair

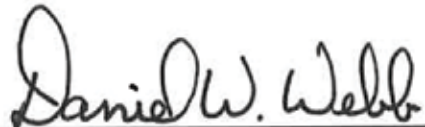
This letter is to inform you of official cadastral surveys in Utah that have been accepted in 2015, and are available from the Public Room, Bureau of Land Management, Utah State Office, 440 W 200 S, Suite 500, Salt Lake City, Utah, 84101. These records are also made available at the BLM internet web site:

<http://www.blm.gov/ut/st/en/prog/more/cadastral.html>

	Group No.	T. & R.	Meridian	Surveyor	Approved	Plat No.	
1	s-311*	T9S R7E	SALT LAKE	(Supplemental)	1/9/2015	2080	A
2	s-312*	T24S R4E	SALT LAKE	(Supplemental)	1/9/2015	1255	F
3	s-313*	T34S R2W	SALT LAKE	(Supplemental)	1/9/2015	1568	H
4	s-314*	T34S R1W	SALT LAKE	(Supplemental)	1/9/2015	1567	F
5	s-327	T36S R13W	SALT LAKE	(Supplemental)	1/9/2015	1636	G
6	s-333*	T4S R4W	SALT LAKE	(Supplemental)	1/9/2015	523	K-L
7	1206	T16S R10E	SALT LAKE	Burkhardt	1/21/2015	967	D
8	1236	T37S R3W	SALT LAKE	Davis	2/6/2015	1660	E
9	s-315*	T9N R17W	SALT LAKE	(Supplemental)	2/9/2015	183	B
10	s-326	T29S R9W	SALT LAKE	(Supplemental)	2/9/2015	1418	D
11	s-329	T33S R4E	SALT LAKE	(Supplemental)	2/9/2015	1551	M
12	1237A	T30S R9W	SALT LAKE	Davis	2/26/2015	1466	D
13	1237B	T31S R9W	SALT LAKE	Davis	2/26/2015	1486	A
14	1238	T33S R10W	SALT LAKE	Davis	2/26/2015	1543	C
15	1202	T13S R16E	SALT LAKE	Burkhardt	3/13/2015	883	C
16	1240	T22S R9W	SALT LAKE	Baugh	3/20/2015	1949	A
17	836E	T8N R2W	SALT LAKE	(Amended)	4/10/2015	201	T-U
18	1243	T7S R6W	SALT LAKE	Batty	4/13/2015	609	D
19	1242	T5S R4W	SALT LAKE	Kurchinski	4/17/2015	537	O-P
20	1244	T3S R3E	SALT LAKE	Norton	4/17/2015	473	U
21	1245*	T37S R20E	SALT LAKE	Burkhardt	4/21/2015	2137	C

22	1235A	T40S R4 ½ W	SALT LAKE	Davis	4/23/2015	1728	C
23	1235B	T40S R5W	SALT LAKE	Davis	4/23/2015	1729	D
24	1246	T11S R4W	SALT LAKE	Davis	5/1/2015	789	F
25	1239	T34S R18W	SALT LAKE	Davis	5/4/2015	1585	A
26	1248	T4S R8W	SALT LAKE	Batty	5/12/2015	527	B
27	1252A	T31S R24E	SALT LAKE	Burkhardt	5/12/2015	1502	A
28	1252B	T31S R25E	SALT LAKE	Burkhardt	5/12/2015	2023	A
29	1250A	T9N R16W	SALT LAKE	Burkhardt	5/20/2015	182	C
30	1250B	T10N R17W	SALT LAKE	Burkhardt	5/20/2015	138	A
31	1279	T13S R6E	SALT LAKE	Burkhardt	6/16/2015	873	C
32	1305	T42S R19E	SALT LAKE	Burkhardt	6/16/2015	1773	G
33	1247	T5S R7W	SALT LAKE	Batty	7/17/2015	534	B
34	1286A	T43S R10E	SALT LAKE	Burkhardt	8/14/2015	2514	A
35	1286B	T43S R9E	SALT LAKE	Burkhardt	8/14/2015	2515	B
36	1249A	T36S R4W	SALT LAKE	Burkhardt	8/26/2015	1626	C
37	1249B	T38S R4W	SALT LAKE	Burkhardt	8/26/2015	1676	D
38	1253	T30S R26E	SALT LAKE	Burkhardt	9/24/2015	2081	A
39	1267	T43S R21E	SALT LAKE	Burkhardt	9/24/2015	2520	
40	1275	T23S R5W	SALT LAKE	Batty	9/29/2015	1223	D
41	1276	T8S R6W	SALT LAKE	Batty	9/29/2015	673	C
42	1215	T40S R11W	SALT LAKE	Batty	9/30/2015	1736	E
43	1221	T19S R2W	SALT LAKE	Batty	9/30/2015	1081	E
44	1262	T42S R26E	SALT LAKE	Burkhardt	9/30/2015	1769	A
45	1260A	T42S R7W	SALT LAKE	Davis	10/28/2015	1782	B
46	1260B	T43S R7W	SALT LAKE	Davis	10/28/2015	1803	A
47	1255	T24S R26E	SALT LAKE	Burkhardt	10/30/2015	1244	A

Note: The use of an asterisk [*] denotes “Plat Only” townships. There will not be a set of field notes for these townships.


 Chief Cadastral Surveyor for Utah



Utah Council of Land Surveyors
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